

CLAIM AMENDMENTS

1. (Currently Amended) A method for capture of a biological analyte from a solution onto a substrate whereby the sample is passed over a substrate surface that has been conjugated with non-antibody ligands by photostable tethers wherein:

- (a) the ligands used are selected from the group consisting of: heme compounds, siderophores, polysaccharides, and peptides specific for outer membrane proteins, conjugated ~~lipids~~ lipids, prions, and microbial protein targets;
- (b) the ligand is tethered at a distance of around forty Å from the substrate surface for the capture of microorganisms;
- (c) the substrate is suitable for a column packing;
- (d) the biological analytes are selected from the groups of: bacteria, viruses, rickettsiae, protozoa, fungi, ~~prions~~ prions, and microbial protein targets;
- (e) the solution from which capture of the biological analytes are captured on the substrate surface via tethered ligands ~~are is used for the concentration of the biological analyte from~~ water samples;
- (f) the solution from which capture of the biological analytes are captured on the substrate surface via tethered ligands ~~are is used for the concentration of the biological analyte from~~ medical samples;
- (g) ~~the capture of the biological analytes on the substrate is used for the concentration of the biological analyte from~~ veterinary samples;
- (h) ~~the capture of the biological analytes on the substrate is used for the concentration of the biological analyte from~~ an aerosol;

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- (i) ~~the capture of the biological analytes on the substrate is used for the concentration of the biological analyte from food product slurries;~~
- (j) ~~the capture of the biological analytes on the substrate is used for the concentration of the biological analyte from food ingredient slurries;~~
- (k) ~~the capture of the biological analytes on the substrate is used for the concentration of the biological analyte from soil slurries.~~

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